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TYPE SPECIMENS OF ORTHOPTERA IN THE  
COLLECTION OF THE CALIFORNIA  
ACADEMY OF SCIENCES TO 1965

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The following is an annotated list of the Orthoptera holotypes, allotypes, and lectotypes only, on hand in the collection of the California Academy of Sciences as of January 1, 1965. All were individually checked against original designations in the literature. Types in the entomology collection of the Academy are housed in specially assigned cases. All the drawers in these cases were carefully examined for specimens. The alcoholic collection, which is kept separate from the pinned collection, was also checked for type specimens; types in alcohol are segregated. There is only a slight possibility that a type specimen in the Academy collection may have been overlooked.

The type names and localities were taken directly from the labels on the specimens. Abbreviations of localities are frequently given in full and additional data, such as county names, are sometimes included for clarity. Obvious exclusions are inserted within brackets [ ].

Following the author's name, the exact date of publication, original citation, and title of the paper appear in respective sequence. The three orthopteran lectotypes in the Academy collection have lectotypic citations included as well as a reference to the original description of the species or the subspecies involved.

TYPE SPECIMENS IN THE ACADEMY'S COLLECTION  
TETRIGIDAE

*Rehnidium mendosum* GRANT. October 3, 1956, Trans. Amer. Ent. Soc., vol.

82, pp. 104–105. The taxonomy of *Batrachia puigaria*, *Lophoscirtus*, *Eutettigidea*, and *Rehndium*.

HOLOTYPE, ♂. Peru, Monson Valley, Tingo Maria, 2–XI–1954. E. I. Schlinger and E. S. Ross, collectors.

*Tetrix ornata insolens* REHN AND GRANT. October 3, 1956, Proc. Acad. Nat. Sci. Phila., vol. 108, pp. 150–152. The components of *Tetrix ornata*.

HOLOTYPE, ♀. California, Kern County, Kernville, 25–V–1940. “Grasses.” C. G. Lewis, collector.

#### EUMASTACIDAE

*Eumorsea pinaleno* REHN AND GRANT. January 16, 1959, Trans. Amer. Ent. Soc., vol. 84, pp. 300–302. Review of the genera *Psychomastax* and *Eumorsea*.

ALLOTYPE, ♀. Arizona, Graham County, Mt. Graham, Shake Trail, 9,000 feet altitude, 20–VIII–1952. H. B. Leech and J. W. Green, collectors.

#### PYRGOMORPHIDAE

*Ichtiacris elongata* KEVAN, SINGH, AND AKBAR. November 30, 1964, Proc. Acad. Nat. Sci. Phila., vol. 116, pp. 247–250. A revision of the Mexican Pyrgomorphidae. 1. Genera other than *Sphenarium*.

HOLOTYPE, ♂, no. 8905. Mexico, Sinaloa, 26 miles north of Pericos, 13–VIII–1960. P. H. Arnaud, E. S. Ross, and D. C. Rentz, collectors.

ALLOTYPE, ♀. Mexico, Sonora, Alamos, 12–VIII–1960. P. H. Arnaud, E. S. Ross, and D. C. Rentz, collectors.

*Parasphenula obscura* KEVAN. March 7, 1962, Proc. Calif. Acad. Sci., fourth ser., vol. 31, pp. 235–240. Pyrgomorphidae (Orthoptera: Acridoidea) collected in Africa by E. S. Ross and R. E. Leech, 1957–1958, with descriptions of new species.

HOLOTYPE, ♀. Northern Rhodesia, Abercorn, 1,600 meters altitude, 16–II–1958. E. S. Ross and R. E. Leech, collectors.

ALLOTYPE, ♂. Same data as for holotype.

*Rutioderes concolor* KEVAN. March 7, 1962, Proc. Calif. Acad. Sci., fourth ser., vol. 31, pp. 231–233. Pyrgomorphidae (Orthoptera: Acridoidea) collected in Africa by E. S. Ross and R. E. Leech, 1957–1958, with descriptions of new species.

HOLOTYPE, ♂. Belgian Congo, Tshibati, Lwiro River, 47 kilometers north of Bukavu, 1,950 meters altitude, 17–XII–1957. E. S. Ross and R. E. Leech, collectors.

#### ACRIDIDAE

##### CYRTACANTHACRIDINAE

*Agnostokasia sublima* GURNEY AND RENTZ. June 19, 1964, Proc. Calif. Acad. Sci., fourth ser., vol. 31, pp. 503–513. A new spine-throated grasshopper

from the White Mountains of California. (Orthoptera: Acrididae: Cyrtacanthacridinae).

HOLOTYPE, ♂, no. 8784. California, Mono County, White Mountains, Mt. Barcroft, 12,500 feet altitude, 21-VII-1961. D. C. Rentz, collector.

ALLOTYPE, ♀. Same data as for holotype.

**Clematodes vanduzeei** HEBARD. July 21, 1923, Proc. Calif. Acad. Sci., fourth ser., vol. 12, pp. 327-328. Expedition of the California Academy of Sciences to the Gulf of California in 1921.

HOLOTYPE, ♀, no. 1240. [Mexico], San Pedro Bay, Gulf of California, 7-VII-1921. E. P. Van Duzee, collector.

**Halmenus eschatus** HEBARD. December 30, 1920. Proc. Calif. Acad. Sci., fourth ser., vol. 2, pp. 329-332. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906.

HOLOTYPE, ♀, no. 717. Wenman Island, Galápagos Islands. F. X. Williams, collector.

ALLOTYPE, ♂, no. 718. Same data as for holotype.

**Hebardacris mono** REHN. July 31, 1964. Notulae Naturae, no. 368, pp. 1-16. Contributions to our knowledge of the North American Melanoplinae (Orthoptera: Acrididae: Cyrtacanthacridinae).

HOLOTYPE, ♂, no. 8915. California, Northwest Inyo County, near Mono Pass, 12,000 feet altitude, 9-VIII-1959. D. C. Rentz, collector.

ALLOTYPE, ♀. Same data as for holotype.

**Hypsalonina petasata** GURNEY AND EADES. December 29, 1961. Trans. Amer. Ent. Soc., vol. 87, pp. 303-306. A new genus of wingless grasshoppers from California related to *Bradynotes*.

HOLOTYPE, ♂. California, Northwestern Inyo County, near Mono Pass, 12,000 feet elevation, 9-VIII-1959. D. C. Rentz, collector.

ALLOTYPE, ♀. Same as for holotype.

**Melanoplus lithophilus** GURNEY AND BUXTON. January 8, 1965, Occas. Papers, Bur. Ent. Calif. Dept. Agr., no. 7, pp. 1-3. New California grasshoppers of the genus *Melanoplus* (Orthoptera, Acrididae).

HOLOTYPE, ♂, no. 8913. California, Trinity County, Weaver Bally, *ex* slate on summit, 26-IX-1963. G. M. Buxton, F. L. Blanc, collectors.

ALLOTYPE, ♀. Same data as for holotype.

#### ACRIDINAE

**Esselenia vanduzeei** HEBARD. December 29, 1920, Proc. Calif. Acad. Sci., fourth ser., vol. 10, pp. 71-75. A new genus and species of grasshopper from California.

HOLOTYPE, ♀, no. 736. Bryson, California, Monterey County, 27-IV-17. E. P. Van Duzee, collector.

## TETTIGONIIDAE

## PHANEROPTERINAE

*Insara psaronota* HEBARD. July 21, 1923, Proc. Calif. Acad. Sci., fourth ser., vol. 12, pp. 332–335. Expedition of the California Academy of Sciences to the Gulf of California in 1921.

HOLOTYPE, ♂, no. 1241. [Mexico], Coyote Bay [= cove?], Concepcion Bay, Gulf of California, 18–VI–1921. J. C. Chamberlain, collector.

ALLOTYPE, ♀, no. 1242. [Mexico], San Marcus Island, Gulf of California. 19–VI–1921. Virgil Owen, collector.

## CONOCEPHALINAE

*Xiphidium exitiosum* MCNEILL. November 7, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 501. Papers from the Hopkins Stanford Galápagos Expedition, 1898–1899. IV. Entomological results.

LECTOTYPE, ♂, Galápagos Islands, James Island, 22–IV–1899. L. Stanford, Jr. U. lot 310, sub. 30. (Hebard, December 30, 1920, lectotype designation. Proc. Calif. Acad. Sci., fourth ser., vol. 2, pp. 335–337. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905–1906.)

## DECTICINAE

*Eremopedes spinosa* HEBARD. July 21, 1923, Proc. Calif. Acad. Sci., fourth ser., vol. 12, pp. 337–339. Expedition of the California Academy of Sciences to the Gulf of California in 1921.

HOLOTYPE, ♂, no. 1243. Mejia Islands, Gulf of California, Angel de la Guardia Island, 28–VI–1921. E. P. Van Duzee, collector.

ALLOTYPE, ♀. Same data as for holotype.

*Plagiostira gillettei utahensis* TINKHAM. December 31, 1962, Great Basin Naturalist, vol. 22, no. 4, pp. 105–109. Studies in Nearctic sand dune Orthoptera. Part VII. A new dwarf race of *Plagiostira gillettei* from a Utah dune, with generic key.

HOLOTYPE, ♂, no. 8785. Coral Pink Dunes, Utah, 22–VIII–1961. J. R. Helfer, collector.

## MECOPODINAE

*Exogryllacris ornata* WILLEMSE. January 1, 1963, Entomologische Berichten, Deel 23, no. 1, pp. 1–4. A new genus and species of Orthoptera from Australia.

HOLOTYPE, ♀, Phillipine Islands, Los Banos, 1914. Ledyard, collector.

The locality given in the original description disagrees with that found on the label at the present time. The locality given in the paper was "Australia, N.

Queensland, collector H. Peters." The type and other material studied by Dr. Willemse were returned subsequent to his death. A specimen determined as *Eumecopoda cyrtoscelis* Karsch by him bears the same locality data as given for the type of *Exogryllacris ornata*. None of the other returned specimens studied by Dr. Willemse bear either locality. Comparison of the type specimen in question with the original description reveals that the specimen with the Philippine Island label is the one described. Since Dr. Willemse photographed most of the specimens we sent him for study, it is believed by this author that the labels were mixed at the time the photos were made and the present labeling of the type specimen of *Exogryllacris ornata* Willemse is in error.

## GRYLLACRIDIDAE

### RHAPHIDOPHORINAE

**Daihiniodes valgum** STROHECKER. March 18, 1960, Pan-Pac. Ent., vol. 36, no. 1, pp. 31–32. Several new species of North American Orthoptera.

HOLOTYPE, ♂, California, Riverside County, Palm Springs, 1–VI-1949. L. M. Smith, collector.

### STENOPELMATINAE

**Stenopelmatus intermedius** DAVIS AND SMITH. July 14, 1926, Pan-Pac. Ent., vol. 2, no. 4, pp. 178–179. Notes on the genus *Stenopelmatus* with description of a new species.

HOLOTYPE, ♀, California, Oakland, XII-1925. L. M. Smith, collector.

ALLOTYPE, ♂. Same data as for holotype.

## GRYLLIDAE

### NEMOBIINAE

**Nemobius speculi** McNEILL. November 7, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 503. Papers from the Hopkins Stanford Galápagos Expedition, IV. Entomological results, 1898–1899.

LECTOTYPE, ♂, Galápagos Islands, Albemarle Island, 23–I-1899. L. Stanford, Jr. U. lot 310, sub. 37. (Hebard, December 30, 1920, lectotype designation. Proc. Calif. Acad. Sci., fourth ser., vol. 3, pp. 341–342. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905–1906.)

### MOGOPLISTINAE

**Cycloptilum lepismoide** McNEILL. November 7, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 501. Papers from the Hopkins Stanford Galápagos Expedition, 1898–1899, IV. Entomological results.

LECTOTYPE, ♂, Galápagos Islands, Albemarle Island, Tagus Cove, 23–III–

1899. L. Stanford, Jr. U. lot 310, sub. 33. (Hebard, December 30, 1920, lectotype designation. Proc. Calif. Acad. Sci., fourth ser., vol. 2, pp. 340-341. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906.)

#### PHASMATODEA TIMEMIDAE

**Timema boharti** TINKHAM. September 30, 1942, Bull. So. Calif. Acad. Sci., vol. 41, no. 2, pp. 77-78. A new Californian species of *Timema* with zoogeographical notes.

HOLOTYPE, ♂. [California, San Diego County], Borrego Desert. 23-III-1941. "Ex grass."

ALLOTYPE, ♀. Same data as for holotype. Both specimens are preserved in alcohol.

#### DICTYOPTERA

**Temnopteryx snodgrassi** McNEILL. November 7, 1901, Proc. Wash. Acad. Sci., vol. 3, p. 493. Papers from the Hopkins Stanford Galápagos Expedition, 1893-1899, IV. Entomological results.

LECTOTYPE, ♀. Galápagos Islands, Albemarle Island, 6-IX-1899. L. Stanford, Jr. U. lot 310, sub. 5. (Hebard, December 30, 1920, lectotype designation. Proc. Calif. Acad. Sci., fourth ser., vol. 2, p. 315. Expedition of the California Academy of Sciences to the Galápagos Islands, 1905-1906.)

The type specimen was originally designated as placed in the collection of the U. S. National Museum but this was a case of mistaken ownership. The specimen has been returned to the California Academy of Sciences through the courtesy of Drs. Harold J. Grant and Ashley B. Gurney.